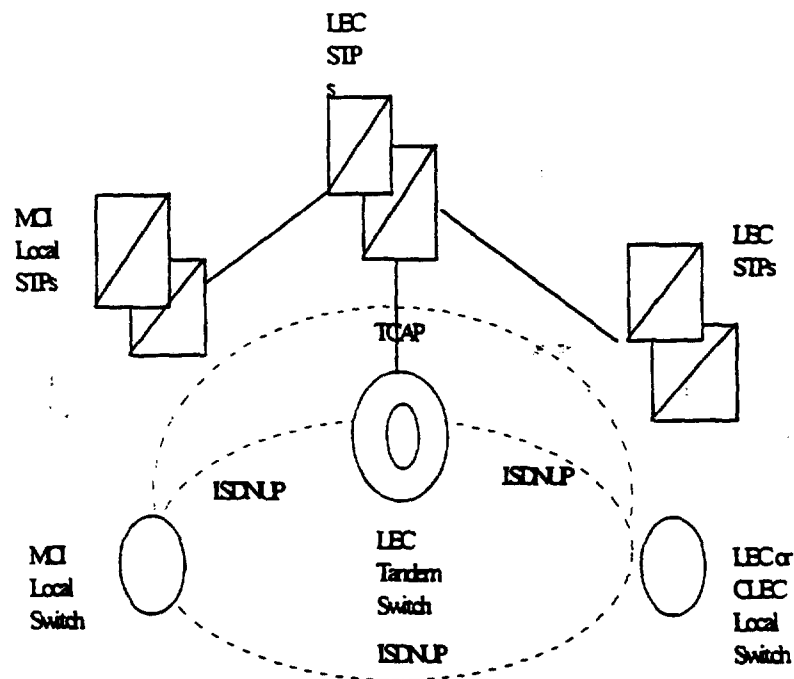


15.5.2.3 In particular, Figure 9 depicts a circumstance where SS7 Network Interconnection shall provide transport for certain types of Transaction Capabilities Application Part (TCAP) messages. If traffic is routed based on dialed or translated digits between an MCI local switching system and a ILEC or other third-party local switching system, either directly or via a ILEC tandem switching system, then it is a requirement that the ILEC SS7 network convey via SS7 Network Interconnection the TCAP messages that are necessary to provide Call Management services (Automatic Callback, Automatic Recall, and Screening List Editing) between the MCI local STPs and the ILEC or other third-party local switch.



**FIGURE 9. Interswitch TCAP Signaling for SS7 Network Interconnection**

15.5.2.4 When the capability to route messages based on Intermediate Signaling Network Identifier (ISNI) is generally available on ILEC STPs, the ILEC SS7 Network shall also convey TCAP messages using SS7 Network Interconnection in similar circumstances where the ILEC switch routes traffic based on a Carrier Identification Code (CIC).

**15.5.2.5 SS7 Network Interconnection shall provide all functions of the MTP as specified in ANSI T1. 111 (Reference 12.5.2). This includes:**

**15.5.2.5.1 Signaling Data Link functions, as specified in ANSI T1.111.2;**

**15.5.2.5.2 Signaling Link functions, as specified in ANSI T1.111.3; and**

**15.5.2.5.3 Signaling Network Management functions, as specified in ANSI T1.111.4.**

**15.5.2.6 SS7 Network Interconnection shall provide all functions of the SCCP necessary for Class 0 (basic connectionless) service, as specified in ANSI T1.112 (Reference 12.5.4). In particular, this includes Global Title Translation (GTT) and SCCP Management procedures, as specified in T1.112.4.**

**15.5.2.7 Where the destination signaling point is a ILEC switching system or DB, or is another third-party local or tandem switching system directly connected to the ILEC SS7 network, SS7 Network Interconnection shall include final GTT of messages to the destination and SCCP Subsystem Management of the destination.**

**15.5.2.8 Where the destination signaling point is an MCI local or tandem switching system, SS7 Network Interconnection shall include intermediate GTT of messages to a gateway pair of MCI local STPs, and shall not include SCCP Subsystem Management of the destination.**

**15.5.2.9 SS7 Network Interconnection shall provide all functions of the Integrated Services Digital Network User Part (ISDNUP), as specified in ANSI T1.113.**

**15.5.2.10 SS7 Network Interconnection shall provide all functions of the TCAP, as specified in ANSI T1.114.**

**15.5.2.11 If and when Internetwork MTP Routing Verification Test (MRVT) and SCCP Routing Verification Test (SRVT) become approved ANSI standards and available capabilities of ILEC STPs, SS7 Network Interconnection shall provide these functions of the OMAP.**

15.5.2.12 SS7 Network Interconnection shall be equal to or better than the following performance requirements:

15.5.2.11.1 MTP Performance, as specified in ANSI T1.111.6;

15.5.2.11.2 SCCP Performance, as specified in ANSI T1.112.5; and

15.5.2.11.3 ISDNUP Performance, as specified in ANSI T1.113.5.

### 15.5.3 Interface Requirements

15.5.3.1 ILEC shall offer the following SS7 Network Interconnection options to connect MCI or MCI-designated STPs to the ILEC SS7 network:

15.5.3.1.1 D-link interface from MCI STPs.

15.5.3.2 Each interface shall be provided by one or more sets (layers) of signaling links, as follows:

15.5.3.2.2 A D-link layer shall consist of four links, as depicted in Figure 10.

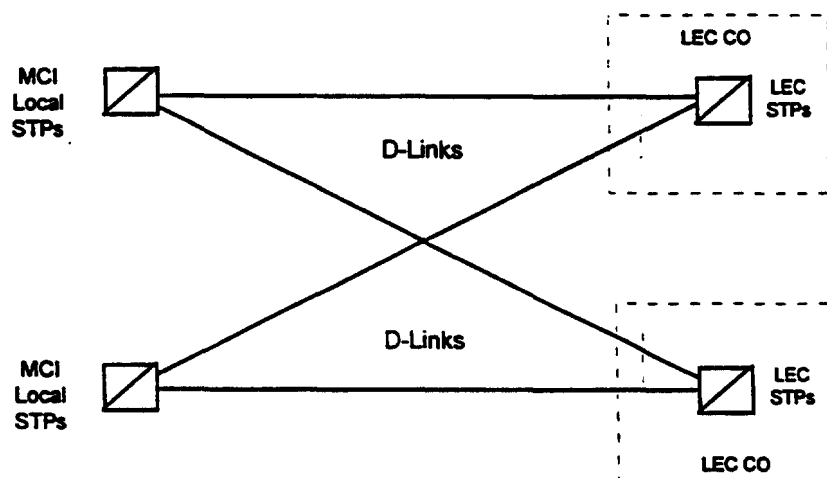


FIGURE 10. D-LINK Interface

**15.5.3.3 The Signaling Point of Interconnection (SPOI) for each link shall be located at a cross-connect element, including but not limited to a DSX-1, in the Central Office (CO) where the ILEC STPs is located. There shall be a DS1 or higher rate transport interface at each of the SPOIs. Each signaling link shall appear as a DS0 channel within the DS1 or higher rate interface. ILEC shall offer higher rate DS1 signaling links for interconnecting MCI's local switching systems or STPs with ILEC STPs as soon as these become approved ANSI standards and available capabilities of ILEC STPs.**

**15.5.3.3.1 In each LATA, there will be two signaling points of interconnection (SPOIs). The requirement for two SPOIs is driven by the critical importance attached by all parties to signaling link diversity.**

**15.5.3.3.2 Each party will designate one of the two SPOIs in the LATA. A SPOI can be any existing cross connect point in the LATA. Since each party will designate a SPOI, we believe that both parties will be incented to select reasonable and efficient SPOI locations.**

**15.5.3.3.3 Each signaling link requires a port on each party's STP, which each party shall provide without explicit charge.**

**15.5.3.4 The ILEC CO shall provide intraoffice diversity between the SPOIs and the ILEC STPs, so that no single failure of intraoffice facilities or equipment shall cause the failure of both D-links in a layer connecting to a ILEC STPs.**

**15.5.3.5 The protocol interface requirements for SS7 Network Interconnection include the MTP, ISDNUP, SCCP and TCAP. These protocol interfaces shall conform to the following specifications:**

**15.5.3.5.1 Bellcore GR-905-CORE, Common Channel Signaling Network Interface Specification (CCSNIS) Supporting Network Interconnection, Message Transfer Part (MTP), and Integrated Services Digital network User Part (ISDNUP);**

**15.5.3.5.2 Bellcore GR-1428-CORE, CCS Network Interface Specification (CCSNIS) Supporting Toll Free Service;**

**15.5.3.5.3 Bellcore GR-1429-CORE, CCS Network Interface Specification (CCSNIS) Supporting Call Management Services; and**

**15.5.3.5.4 Bellcore GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP).**

**15.5.3.6 ILEC shall set message screening parameters to block accept messages from MCIm local or tandem switching systems destined to any signaling point in the ILEC SS7 network with which the MCIm switching system has a legitimate signaling relation.**

**15.5.4 SS7 Network Interconnection shall be equal to or better than all of the requirements for SS7 Network Interconnection set forth in the following technical references:**

**15.5.4.1 ANSI T1.110-1992 American National Standard Telecommunications Signaling System Number 7 (SS7) - General Information;**

**15.5.4.2 ANSI T1.111-1992 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Message Transfer Part (MTP);**

**15.5.4.3 ANSI T1.111A-1994 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Message Transfer Part (MTP) Supplement;**

**15.5.4.4 ANSI T1.112-1992 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Signaling Connection Control Part (SCCP);**

**15.5.4.5 ANSI T1.113-1995 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Integrated Services Digital Network (ISDN) User Part;**

**15.5.4.6 ANSI T1.114-1992 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Transaction Capabilities Application Part (TCAP);**

**15.5.4.7 ANSI T1.115-1990 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Monitoring and Measurements for Networks;**

**15.5.4.8 ANSI T1.116-1990 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Operations, Maintenance and Administration Part (OMAP);**

**15.5.4.9 ANSI T1.118-1992 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Intermediate Signaling Network Identification (ISNI);**

**15.5.4.10 Bellcore GR-905-CORE, Common Channel Signaling Network Interface Specification (CCSNIS) Supporting Network Interconnection, Message Transfer Part (MTP), and Integrated Services Digital Network User Part (ISDNUP);**

**15.5.4.11 Bellcore GR-954-CORE, CCS Network Interface Specification (CCSNIS) Supporting Line Information Database (LIDB) Service;**

**15.5.4.12 Bellcore GR-1428-CORE, CCS Network Interface Specification (CCSNIS) Supporting Toll Free Service;**

**15.5.4.13 Bellcore GR-1429-CORE, CCS Network Interface Specification (CCSNIS) Supporting Call Management Services; and,**

**15.5.4.14 Bellcore GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP).**

## **15.6 Network Interconnection**

### **15.6.1 Technical Requirements**

**15.6.1.1 When requested by MCI, ILEC shall provide interconnections between the ILEC Network Elements**

provided to MCI and MCI's network at transmission rates designated by MCI.

**15.6.1.2 Traffic shall be combined and routed as follows:**

**15.6.1.2.1 ILEC shall provide direct trunks for intraLATA traffic (except 911, directory assistance, operator services, and other services that may require special routing) and, at MCI's request, ILEC shall allow MCI to route such traffic either directly to a ILEC tandem or directly to a ILEC end-office. At MCI's option, intraLATA toll and local traffic shall be combined onto one trunk group.**

**15.6.1.2.2 At MCI's request, ILEC shall receive MCI traffic destined to the ILEC Operator Systems Network Element, on trunks from an MCI end-office or an MCI tandem.**

**15.6.1.2.3 At MCI's request, ILEC shall receive MCI CAMA-ANI (Centralized Automatic Message Accounting - Automatic Number identification) traffic destined to the ILEC B911-PSAPs, or E911 tandems, on trunks from an MCI end-office.**

**15.6.1.2.4 At MCI's request, ILEC shall receive MCI SS7 traffic destined to any ILEC S911 tandem on trunks from an MCI end-office.**

**15.6.1.3 When requested by MCI and a third party carrier, ILEC shall provide interconnections between MCI's network, and the other carrier's network through the ILEC network at transmission rates designated by MCI, including, but not limited to DS1, DS3, and STS-1. ILEC shall combine and route traffic to and from other local carriers and interLATA carriers through the ILEC network, and at MCI's request, ILEC shall record and keep records of such traffic for MCI billing purposes.**

**15.6.1.4 ILEC shall provide two-way trunk groups for interconnections. At MCI's request, ILEC shall provide unidirectional traffic on such trunks, in either direction, effectively operating them as if they were one-way trunk groups.**

**15.6.1.5 ILEC shall provision trunks without any user restrictions (e.g., option for two-way trunking, and no unnecessary trunk group fragmentation by traffic types).**

**15.6.1.6 All trunking provided by ILEC shall adhere to the applicable performance requirements set forth in the "General Performance Requirements" section of this Agreement.**

**15.6.1.7 At MCI's request, ILEC shall provide for overflow routing from a given trunk group or groups onto another trunk group or groups as MCI designates.**

**15.6.1.8 ILEC and MCI shall agree on the establishment of two-way trunk groups for the exchange of traffic for other IXCs. These trunk groups can be provided in a "meet point" arrangement.**

**15.6.1.9 Interconnection shall be made available upon MCI's request at any technically feasible point of interface. All trunk interconnections shall be provided, including, SS7, MF, DTMF, DialPulse, PRI-ISDN (where available), DID (Direct Inward Dialing), CAMA-ANI, and trunking necessary so that interim NP can be provided.**

**15.6.1.10 Trunk Interface Requirements**

**15.6.1.10.1 B911/E911 Trunks**

**15.6.1.10.1.1 ILEC shall allow MCI to provide direct trunking to each ILEC B911 serving end office, or ILEC E911 tandem, as is appropriate for the applicable serving area. These trunks are to be provided as one-way trunks from a given MCI end office to the ILEC 911 end-office or tandem.**

**15.6.1.10.1.2 ILEC shall provide for overflow 911 traffic to be sent to the ILEC operator services platform or, at MCI's direction, routed directly to MCI's operator services platform.**

**15.6.1.10.2 S911 Trunks**



In areas where S911 tandems are used, ILEC shall allow MCI to provide direct trunking to each ILEC S911 tandem. Such SS7 trunks are to be provided as one-way trunks from a given MCI end-office to the ILEC S911 tandem.

**15.6.1.10.3 Local Switch and Access Tandem Trunks**

15.6.1.10.3.1 ILEC shall provide trunk groups provisioned exclusively to carry intraLATA traffic, as designated by MCI.

15.6.1.10.3.2 ILEC shall provide trunk groups provisioned exclusively to carry interLATA traffic, as designated by MCI.

15.6.1.10.3.3 ILEC shall provide SS7 trunks which provide SS7 interconnection. At MCI's request, MF trunks may be substituted for SS7 trunks where applicable.

15.6.1.10.3.4 ILEC shall simultaneously route calls based on dialed digits (in accordance with the standard GR-317-CORE), and Carrier Identification Code (in accordance with the standard GR-394-CORE) over a single SS7 trunk group.

**15.6.1.10.4 ILEC Operator Services Trunk**

15.6.1.10.4.1 For traffic from the ILEC network to MCI for Operator Services, ILEC shall provide one trunk group per NPA served by the local ILEC switch.

15.6.1.10.4.2 ILEC shall provide such trunks as one-way trunks from the ILEC network to the MCI network.

**15.6.2 Network Interconnection between ILEC and MCI shall meet or exceed all of the requirements for Network Interconnection set forth in the following technical references:**

**15.6.2.1 GR-317-CORE, Switching System generic requirements for Call Control Using the Integrated Services**

Digital Network User Part (ISDNUP), Bellcore, February, 1994;

15.6.2.2 GR-394-CORE, Switching System generic requirements for Interexchange Carrier Interconnection Using the Integrated Services Digital Network User Part (ISDNUP), Bellcore, February, 1994;

15.6.2.3 FR-NWT-000271, OSSGR Operator Services Systems generic requirements, Bellcore, 1994 Edition; and

15.6.2.4 FR-NWT-000064, LATA Switching Systems Generic Requirements (LSSGR), Bellcore, 1994 Edition.

#### ***Section 16. Basic 911 and E911***

See Attachment VIII, Section 6.1.1 911 General Requirements and Section 6.2.1 911 System Interface and Exchanges

#### ***Section 17. Directory Assistance Data***

See Attachment VIII, Section 6.1.6, Directory Assistance Data General Requirements and Section 6.2.2, Directory Assistance Data Interfaces and Exchanges.

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## **ATTACHMENT IV**

### **INTERCONNECTION**

#### **Section 1. Local Interconnection Trunk Arrangement**

1.1 The parties shall initially reciprocally terminate local exchange traffic and IntraLATA/InterLATA toll calls originating on each other's networks as follows:

1.1.1 The parties shall make available to each other two-way trunks for the reciprocal exchange of *combined* local traffic, non-equal access IntraLATA toll traffic, and local transit traffic to other ILECs.

1.1.2 Separate two-way trunks will be made available for the exchange of equal-access InterLATA or IntraLATA interchange traffic that transits ILEC's network.

1.1.3 Separate trunks connecting MCI's switch to each 911/E911 tandem.

1.1.4 Separate trunk group connecting MCI's switch to ILEC's operator service center for operator-assisted busy line interrupt/verify.

1.1.5 Separate trunk group connecting MCI's switch to ILEC's directory assistance center in instances where MCI is purchasing ILEC's unbundled directory assistance service.

1.1.6 It is recognized by the parties that there is no technical requirement to segregate local and interexchange traffic. Further, it shall be incumbent upon ILEC to prove that a request for a revised traffic combination is technically infeasible.

#### **1.2 Interconnection Point**

1.2.1 "Interconnection Point" or "IP" means the physical point that establishes the technical interface, the test point, and the operational responsibility hand-off between MCI and ILEC for the local interconnection of their networks.

1.2.2 MCI shall designate at least one IP in the LATA in which MCI originates local traffic and interconnects with ILEC. MCI will be responsible for engineering and maintaining its network on its side of the IP. ILEC will be responsible for engineering and maintaining its network on its side of the IP. If and when the parties choose to interconnect at a mid-span meet, MCI and ILEC will jointly provision the fiber optic facilities that connect the two networks and shall share the financial and other responsibilities for that facility.

1.2.2.1 Upon MCI's request for additional points of interconnection, ILEC will interconnect with MCI at any technically feasible point of MCI's choosing using the same technical configuration or using other arrangements including but not limited to mid-span fiber meets, entrance facilities, telco closets, and physical or virtual collocation.

1.2.2.2 Within 24 hours of MCI's request for any IP, ILEC shall provide any information in its possession or available to it regarding the environmental conditions of the IP route or location including, but not limited to, the existence and condition of asbestos, lead paint, hazardous substance contamination, or radon. Information is considered "available" under this Agreement if it is in ILEC's possession, or the possession of a current or former agent, contractor, employee, lessor, or tenant of ILEC's.

1.2.2.3 ILEC shall allow MCI to perform any environmental site investigations, including, but not limited to, asbestos surveys, MCI deems to be necessary in support of its collocation needs.

1.2.2.4 If interconnection is complicated by the presence of environmental contamination or hazardous materials, and an alternative route is available, ILEC shall make such alternative route available for MCI's consideration.

## **Section 2. Compensation Mechanisms**

### **2.1 Interconnection Point**

2.1.1 Each party is responsible for bringing their facilities to the IP.

### **2.2 Compensation for Call Traffic Transport and Termination**

2.2.2 The IP determines the point at which the originating carrier shall pay the terminating carrier for the completion of that traffic. The following compensation elements shall apply:

2.2.2.1 "Transport", which includes the transmission and any necessary tandem switching of local telecommunication traffic from the interconnection point between the two carriers to the terminating carrier's end-office switch that directly serves the called end-user.

2.2.2.2 "Termination", which includes the switching of local telecommunications traffic at the terminating carrier's end office switch.

2.3 When an MCI customer places a call to ILEC's customer, MCI will hand off that call to ILEC at the IP. Conversely, when ILEC hands over local traffic to MCI for MCI to transport and terminate, ILEC must use the established IP.

2.4 MCI may designate an IP at any technically feasible point including but not limited to any electronic or manual cross-connect points, collocations, telco closets, entrance facilities, and mid-span meets. The transport and termination charges for local traffic flowing through an IP shall be as follows:

2.4.1 When calls from MCI are terminating on ILEC's network through the ILEC tandem, MCI will pay to ILEC transport charges from the IP to the tandem for dedicated or common transport. MCI shall also pay a charge for tandem switching, dedicated or common transport to the end office (with mileage calculated as the weighted average of all end offices subtending that tandem), and end-office termination.

2.4.2 When ILEC terminates calls to MCI's subscribers using MCI's switch, ILEC shall pay to MCI transport charges from the IP to the MCI Switching Center for dedicated or common transport. ILEC shall also pay to MCI a charge symmetrical to its own charges for tandem switching, tandem-to-end-office transport, and end office termination as identified in Section 2.4.1.

2.4.3 MCI may choose to establish direct trunking to any given end office. If MCI leases trunks from ILEC, it shall pay charges for dedicated or common transport. For calls terminating from MCI to subscribers served by these directly-trunked end offices, MCI shall also pay an end-office termination. For ILEC traffic terminating to MCI over the direct end office trunking,

compensation payable by ILEC shall be the same as that detailed in Section 2.4.2 above.

### **Section 3. Signaling**

3.1 Signaling protocol. The parties will interconnect their networks using SS7 signaling as defined in GR-347 and GR-394 including ISDN User Part ("ISUP") for trunk signaling and Transaction Capabilities Application Part ("TCAP") for CCS-based features in the interconnection of their networks. All Network Operations Forum (NOF) adopted standards shall be adhered to.

3.2 The parties will provide CCS to each other in conjunction with all two-way trunk groups. The parties will cooperate on the exchange of Transactional Capabilities Application Part (TCAP) messages to facilitate full inter-operability of CCS-based features between their respective networks, including all CLASS features and functions. All CCS signaling parameters will be provided including automatic number identification (ANI), originating line information (OLI), calling party category, charge number, etc. All privacy indicators will be honored. For terminating FGD, ILEC will pass CPN if it receives CPN from FGD carriers. All privacy indicators will be honored. Where available, network signaling information such as Transit Network Selection ("TNS") parameter (CCS platform) and CIC/OZZ information (non-CCS environment) will be provided by MCI where such information is needed for call routing or billing. The parties will follow all OBF adopted standards pertaining to TNS and CIC/OZZ codes.

3.3 Refer to Attachment III, Section 15.5 for detailed terms of SS7 Network Interconnection.

3.4 Standard interconnection facilities shall be Extended Superframe (ESF) with B8ZS line code. Where ESF/B8ZS is not available, MCI will agree to using other interconnection protocols on an interim basis until the standard ESF/B8ZS is available. ILEC will provide anticipated dates of availability for those areas not currently ESF/B8ZS compatible.

3.4.1 Where MCI is unwilling to utilize an alternate interconnection protocol, MCI will provide ILEC an initial forecast of 64 Kbps Clear Channel Capability ("64K CCC") trunk quantities within 30 days of executing this Agreement consistent with the forecasting agreements between the parties. Upon receipt of this forecast, the parties will begin joint planning for the engineering, procurement, and installation of the segregated 64K CCC Local Interconnection Trunk Groups, and the associated B8ZS Extended Super Frame ("ESF") facilities, for the sole purpose of transmitting

64K CCC data calls between MCI and ILEC. Where additional equipment is required, such equipment would be obtained, engineered, and installed on the same basis and with the same intervals as any similar growth job for IXC, CLEC, or ILEC internal customer demand for 64K CCC trunks. Where technically feasible, these trunks will be established as two-way.

## **Section 4. Network Servicing**

### **4.1 TRUNK FORECASTING:**

**4.1.1** The parties shall work towards the development of joint forecasting responsibilities for traffic utilization over trunk groups. Orders for trunks that exceed forecasted quantities for forecasted locations will be accommodated as facilities and or equipment are available. parties shall make all reasonable efforts and cooperate in good faith to develop alternative solutions to accommodate orders when facilities are not available. Intercompany forecast information must be provided by the parties to each other twice a year. The semi-annual forecasts shall include:

**4.1.1.1** Yearly forecasted trunk quantities (which include measurements that reflect actual tandem and end office Local Interconnection and meet point trunks and tandem-subtending Local Interconnection end office equivalent trunk requirements for no more than two years (current plus one year));

**4.1.1.2** The use of Common Language Location Identifier (CLLI-MSG), which are described in Bellcore documents BR 795-100-100 and BR 795-400-100;

**4.1.1.3** Description of major network projects that affect the other party will be provided in the semi-annual forecasts. Major network projects include but are not limited to trunking or network rearrangements, shifts in anticipated traffic patterns, or other activities by either party that are reflected by a significant increase or decrease in trunking demand for the following forecasting period.

**4.1.2** parties shall meet to review and reconcile their forecasts if forecasts vary significantly.

**4.1.2.1** If the parties are unable to reach such a reconciliation, the Local interconnection Trunk Groups shall be provisioned to the higher forecast. At the end of three



months, the utilization of the Local Interconnection Trunk Groups will be reviewed and if the average CCS utilization for the third month is under seventy five percent (75%) of capacity, either party may issue an order to resize the trunk group, which shall be left with not less than twenty five percent (25%) excess capacity.

4.1.2.2 If the parties agree on the original forecast and then it is determined that a trunk group is under seventy five percent (75%) of CCS capacity on a monthly-average basis for each month of any six-month period, either party may issue an order to resize the trunk group, which shall be left with not less than twenty five percent (25%) excess capacity.

4.1.3 Each party shall provide a specified point of contact for planning forecasting and trunk servicing purposes.

4.1.4 Trunking can be established to tandems or end offices or a combination of both via either one-way or two-way trunks. Trunking will be at the DS-0 level, DS-1 level, DS-3/OC-3 level, or higher, as designated by MCI. Initial trunking will be established between the MCI switching centers and ILEC's access tandem(s). The parties will utilize direct end office trunking under the following conditions:

4.1.4.1 Tandem exhaust - If a tandem through which the parties are interconnected is unable to, or is forecasted to be unable to, support additional traffic loads for any period of time, the parties will mutually agree on an end office trunking plan that will alleviate the tandem capacity shortage and ensure completion of traffic between MCI and ILEC subscribers.

4.1.4.2 Traffic volume - The parties shall install and retain direct end office trunking sufficient to handle actual or reasonably forecast traffic volumes, whichever is greater, between an MCI switching center and a ILEC end office where the traffic exceeds or is forecast to exceed 220,000 minutes of local traffic per month. The parties will install additional capacity between such points when overflow traffic between the MCI switching center and ILEC access tandem exceeds or is forecast to exceed 220,000 minutes of local traffic per month.

4.1.4.3 Mutual agreement - The parties may install direct end office trunking upon mutual agreement in the absence

of conditions (1) or (2) above and agreement will not unreasonably be withheld.

#### 4.2 GRADE OF SERVICE:

4.2.1 A blocking standard of one percent (.01) during the average busy hour, as defined by each party's standards, for final trunk groups between a MCI end office and a ILEC access tandem carrying meet point traffic shall be maintained. All other final trunk groups are to be engineered with a blocking standard of one percent (.01). Direct end office trunk groups are to be engineered with a blocking standard of one percent (.01).

#### 4.3 TRUNK SERVICING

4.3.1 Orders between the parties to establish, add, change or disconnect trunks shall be processed by use of an Access Service Request (ASR), or another industry standard eventually adopted to replace the ASR for local service ordering.

4.3.2 As discussed in this Agreement, both parties will jointly manage the capacity of Local Interconnection Trunk Groups. ILEC's [Trunk Servicing Group] will send a Trunk Group Service Request (TGSR) to MCI to trigger changes ILEC desires to the Local Interconnection Trunk Groups based on ILEC's capacity assessment. MCI will issue an ASR to ILEC:

4.3.2.1 within 10 business days after receipt of the TGSR upon review of and in response to ILEC's TGSR, or

4.3.2.2 at any time as a result of MCI's own capacity management assessment, to begin the provisioning process.

4.3.3 The standard interval used for the provisioning of Local Interconnection Trunk Groups shall be determined by Customer Desired Due Date, but in no event shall it be longer than ten (10) working days.

4.3.4 Orders that comprise a major project that directly impacts the other party may be submitted at the same time, and their implementation shall be jointly planned and coordinated. Major projects are those that require the coordination and execution of multiple orders or related activities between and among ILEC and MCI work groups, including but not limited to the initial establishment of Local Interconnection or Meet Point trunk groups

and service in an area, NXX code moves, re-homes, facility grooming, or network rearrangements.

4.3.5 MCIm and ILEC agree to exchange escalation lists which reflect contact personnel including vice president-level officers. These lists shall include name, department, title, phone number, and fax number for each person. MCIm and ILEC agree to exchange an up-to-date list on a quarterly basis.

## **Section 5. Network Management**

### **5.1 Protective Protocols**

5.1.1 Either party may use protective network traffic management controls such as 7-digit and 10-digit code gaps on traffic toward each others network, when required to protect the public switched network from congestion due to facility failures, switch congestion or failure or focused overload. MCIm and ILEC will immediately notify each other of any protective control action planned or executed.

### **5.2 Expansive Protocols**

5.2.1. Where the capability exists, originating or terminating traffic reroutes may be implemented by either party to temporarily relieve network congestion due to facility failures or abnormal calling patterns. Reroutes will not be used to circumvent normal trunk servicing. Expansive controls will only be used when mutually agreed to by the parties.

### **5.3 Mass Calling**

5.3.1 MCIm and ILEC shall cooperate and share pre-planning information, where available, regarding cross-network call-ins expected to generate large or focused temporary increases in call volumes, to prevent or mitigate the impact of these events on the public switched network.

## **Section 6. Busy Line Verify And Interrupt**

6.1 Description: Each party shall establish procedures whereby its operator bureau will coordinate with the operator bureau of the other party in order to provide Busy Line Verification ("BLV") and Busy Line Verification and Interrupt ("BLVI") services on calls between their respective end users on or before the effective date of this agreement.

6.2 Compensation: Each party shall charge the other party for BLV and BLVI at rates specified in Attachment I.

## **Section 7. Usage Measurement**

7.1 Each party shall calculate terminating interconnection minutes of use based on standard Automatic Message Accounting (AMA) recordings made within each party's network, these recordings being necessary for each party to generate bills to the other party.

7.2 Measurement of minutes of use over Local Interconnection Trunk groups shall be in actual conversation seconds. The total conversation seconds over each individual Local Interconnection Trunk Group will be totaled for the entire monthly bill-round and then rounded to the next whole minute.

7.3 Each party shall provide to the other, within 20 calendar days after the end of each quarter (commencing with the first full quarter after the effective date of this Agreement), a usage report with the following information regarding traffic terminated over the Local Interconnection Trunk Groups:

7.3.1 Total traffic volume described in terms of minutes and messages and by call type (local, toll, and other) terminated to each other over the Local Interconnection Trunk Groups, and

7.3.2. Percent Local Use (PLU)

## **Section 8. Responsibilities Of The parties**

8.1 ILEC and MCIIm agree to treat each other fairly, nondiscriminatorily, and equally for all items included in this Agreement, or related to the support of items included in this Agreement.

8.2 MCIIm and ILEC agree to exchange such reports and/or data as provided in this Attachment in Section 7 to facilitate the proper billing of traffic. Either party may request an audit of such usage reports on no fewer than 10 business days' written notice and any audit shall be accomplished during normal business hours at the office of the party being audited. Such audit must be performed by a mutually agreed-to independent auditor paid for by the party requesting the audit and may include review of the data described in Section 7 above. Such audits shall be requested within six months of having received the PLU factor and usage reports from the other party.

8.3 MCIm and ILEC will review engineering requirements on a semi-annual basis and establish forecasts for trunk and facilities utilization provided under this Agreement. ILEC and MCIm will work together to begin providing these forecasts within 30 days from the Effective Date of this Agreement. New trunk groups will be implemented as dictated by engineering requirements for either ILEC or MCIm.

8.4 MCIm and ILEC shall share responsibility for all Control Office functions for Local Interconnection Trunks and Trunk Groups, and both parties shall share the overall coordination, installation, and maintenance responsibilities for these trunks and trunk groups.

8.5 MCIm is responsible for all Control Office functions for the meet point trunking arrangement trunks and trunk groups, and shall be responsible for the overall coordination, installation, and maintenance responsibilities for these trunks and trunk groups.

8.6 MCIm and ILEC shall:

8.6.1 Provide trained personnel with adequate and compatible test equipment to work with each other's technicians.

8.6.2 Notify each other when there is any change affecting the service requested, including the due date.

8.6.3 Coordinate and schedule testing activities of their own personnel, and others as applicable, to ensure its interconnection trunks/trunk groups are installed per the interconnection order, meet agreed-upon acceptance test requirements, and are placed in service by the due date.

8.6.4 Perform sectionalization to determine if a trouble is located in its facility or its portion of the interconnection trunks prior to referring the trouble to each other.

8.6.5 Advise each other's Control Office if there is an equipment failure which may affect the interconnection trunks.

8.6.6 Provide each other with a trouble reporting/repair contact number that is readily accessible and available 24 hours/7 days a week. Any changes to this contact arrangement must be immediately provided to the other party.

8.6.7 Provide to each other test-line numbers and access to test lines.

**8.6.8 Cooperatively plan and implement coordinated repair procedures for the meet point and Local Interconnection Trunks and facilities to ensure trouble reports are resolved in a timely and appropriate manner.**

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## **ATTACHMENT V**

### **COLLOCATION**

#### ***Section 1. Introduction***

This Attachment sets forth the requirements for Collocation.

#### ***Section 2. Technical Requirements***

2.1 ILEC shall provide space, as requested by MCI, to meet MCI's needs for placement of equipment, interconnection, or provision of service.

2.1.1. Within twenty-four (24) hours of MCI's request for any space, ILEC shall provide any information in its possession or available to it regarding the environmental conditions of the space provided for placement of equipment and interconnection, including, but not limited to, the existence and condition of asbestos, lead paint, hazardous substance contamination, or radon. Information is considered "available" under this Agreement if it is in ILEC's possession, or the possession of a current or former agent, contractor, employee, lessor, or tenant of ILEC's.

2.1.2 ILEC shall allow MCI to perform any environmental site investigations, including, but not limited to, asbestos surveys, which MCI deems to be necessary in support of its collocation needs.

2.1.3 If the space provided for the placement of equipment, interconnection, or provision of service contains environmental contamination or hazardous material, particularly but not limited to asbestos, lead paint or radon, which makes the placement of such equipment or interconnection hazardous, ILEC shall offer an alternative space, if available, for MCI's consideration.

2.1.4 MCI shall provide ILEC with a list of hazardous materials that are contained in any equipment it places in space provided by ILEC prior to placement of the equipment in the space.

2.2 ILEC shall provide intraoffice facilities (e.g., DS0, DS1, DS3, OC3, OC12, OC48, and STS-1 terminations) as requested by MCI to meet MCI's need for placement of equipment, interconnection, or provision of service.



2.3 ILEC agrees to allow MCI's employees and designated agents unrestricted access to MCI's dedicated space in manned ILEC offices twenty-four (24) hours per day each day of the week. ILEC may place reasonable security restrictions on access by MCI's employees and designated agents to the MCI collocated space in unmanned ILEC offices. Notwithstanding, ILEC agrees that such space shall be available to MCI's employees and designated agents twenty-four (24) hours per day each day of the week. In no case should any reasonable security restrictions be more restrictive than those ILEC places on their own personnel.

2.4 MCI may collocate the amount and type of equipment it deems necessary in its collocated space (e.g., MCI utilizing its SONET termination equipment in the collocated space to provide a hub for OC3/OC48 rings). ILEC shall not restrict the types of equipment or vendors of equipment to be installed.

2.5 ILEC shall permit a collocating telecommunications carrier to interconnect its network with that of another collocating telecommunications carrier at the ILEC premises and to connect its collocated equipment to the collocated equipment of another telecommunications carrier within the same premises.

2.6 ILEC shall permit MCI to subcontract the construction of physical collocation arrangements with contractors approved by the ILEC, provided, however, that the ILEC shall not unreasonably withhold approval of contractors. Approval by an ILEC shall be based on the same criteria it uses in approving contractors for its own purposes.

2.7 ILEC shall provide basic telephone service with a connection jack as requested by MCI from ILEC for the collocated space. Upon MCI's request, this service shall be available at the MCI collocated space on the day that the space is turned over to MCI by ILEC.

2.8 ILEC shall provide adequate lighting, ventilation, power, heat, air conditioning, and other environmental conditions for MCI's space and equipment. These environmental conditions shall adhere to Bell Communication Research (Bellcore) Network Equipment-Building System (NEBS) standards TR-EOP-000063 or other standards which MCI may designate.

2.9 ILEC shall provide access to bathrooms, and drinking water within the collocated facility on a twenty-four (24) hours per day, seven (7) days per week basis for MCI personnel and its designated agents.